Question #1
-A-

σ cNum=3530
Offering

-B-

π cNum,term,name (π cNum, term σ year=2016 Offering ⋈ σ dept='CIS' Course)

-C-

π cNum,name (σ instructor='Ritu' Offering ⋈ Course)

-D-

π sID,firstName,lastName,email,cgpa ((π oID σ cNum=3530 ∧ year=2017 ∧ term='F' Offering ⋈ Took) ⋈ Student)

-E-

(π sID Student - π sID (π oID σ cNum=3530 Offering ⋈ Took)) ⋈ Student

-F-

(π oID,sID Took ÷ (π oID (σ dept='HIS' Course ⋈ Offering))) ⋈ Student

-G-

π a.cNum,a.dept,b.cNum,b.dept σ a.cNum=b.cNum ∧ a.dept!=b.dept ∧ a.dept<b.dept (ρ a Course x ρ b Course)

-H-

π cNum Course ⋈ π cNum,term,year Offering

-I-
Question
Find the student with the highest cgpa

π firstName,lastName,cgpa Student - π a.firstName,a.lastName,a.cgpa σ a.cgpa<b.cgpa (ρ a π firstName,lastName,cgpa Student x ρ b π firstName,lastName,cgpa Student)